County Borough of South Shields.



REPORT

ON THE

Health of the Borough

DURING 1909,

BY

SYDNEY G. MOSTYN, M.A., M.B., D.P.H.,

MEDICAL OFFICER OF HEALTH,

MEDICAL SUPERINTENDENT OF DENES FEVER HOSPITAL

AND WHITELEAS SMALLPOX HOSPITAL,

COUNTY BOROUGH OF SOUTH SHIELDS.

HEALTH COMMITTEE.

THE MAYOR (Councillor G. T. GREY) Ex-officio.

ALDERMAN	ROBERTSON	Councillor	GHEROY.
	(Chairman).	, ,	Hall.
,,	GIBBON.	, ,	Нилох.
,,	GRANT.	,,	PETTLER.
,,	Reay.	,,	RICHARDSON.
,,	SCOTT.	,,	Robertson.
COUNCILLOR	Anderson.	, ,	SEMPLE
,,	Armstrong.		(Vice-Chairman).
,,	BATEY.	,,	BEN. SMITH.
,,	CLARK.	, ,	Edward Smith.
,,	DUNLOP.	7.1	John O. Smith.
, ,	Galloway.	2,1	VINE.

STAFF OF THE HEALTH DEPARTMENT.

Medical Officer of Health and Medical Superintendent of Borough Hospitals:

S. G. MOSTYN, M.A., M.B., D.P.H.

Deputy Medical Officer of Health, etc.:

W. Dalziel, L.R.C.P., L.R.C.S.

Superintendent of Public Slaughterhouse and Inspector under Food and Drugs Acts, etc.:

M. J. Pollock.

District Inspectors of Nuisances: W. Clark, R. W. Weir, R. Ayre, and W. A. C. Hill.

Inspector of Midwives and Health Visitor:

MISS A. T. IMESON.

Clerks:

J. YEOMAN and E. H. GRAY.

Matron, Fever Hospital:
MISS I. INGRAM.

INDEX TO CONTENTS.

REPORT, 1909.

Interal								PAGE.
Introducto	0/	• •	• •	• •		• •		5
Area of Borough	• •	• •	• •	• •	• •			6
Bacteriological Laboratory	7	• •	• •	• •	• •			17
Births	• • ,	• •			• •			6
Deaths	s, etc.,	compai	ret witl	i the lai	rge tow	ns, etc.		9-10
	· · · · · · · · · · · · · · · · · · ·			• •	• •	• •		6-10
Deaths, classified according					ete.	• •		42-57
Denes Fever Hospital General Sanitary Work—	• •	• •	• •	• •	• •	• •		18-20
Pack Lang	•							
Back Lanes Common Lodging E	1	• •	• •	• •	• •	• •		21
Cowsheds, Dairies a			• •	• •	• •	• •	• •	24
Factory and Works	dia min	.ksnops		• •	• •	• •		27
77 1 7	-		• •	••	• •	• •	• •	24-26
Fried Fish Shops	• •		• •	• •	• •	• •	• •	27
Gut-Scraping	• •	• •	• •	• •	• •	• •	• •	27
Health Visitor		• •	• •	• •	• •	• •	• •	27
Houses-Let-in-Lodg	inga	• •	• •	• •	• •	• •		29-30
Housing of the Wor		Jaggang	· ·	• •	• •	• •	• •	24
Ice Cream Shops	iking C	ziasses .		• •	• •	• •	• •	23
Midwives Act. 1902	• •		• •	• •	• •	• •	• •	27
Nuisances	• •		• •	• •	• •	• •	• •	28-29
Public Health Acts A	 mendr	$\sum_{n=1}^{\infty} A_n$	 ⊹+ 19∩7	, • •	• •	• •	• •	$\frac{21}{21-23}$
Public Slaughterhot	ise				• •	• •	• •	21-23
Seamen's Lodging I	Houses		• •	• •	• •	• •	• •	24
Triperies		••			• •	• •	• •	$\frac{24}{27}$
Triperies Tyne Dock Mortuar	v					• •	• •	$\frac{27}{27}$
Water Supply Hospitals	<i>J</i>	• •			• •		• •	$\frac{27}{27}$
Hospitals								18-20
Hospital, New, for Infection	ous Dis	seases			• •			20
,, Joint Smallpox								$\frac{20}{20}$
Infantile Mortality								54-55
Infantile Mortality Infectious Disease (Notifica	ation).	Act, 18	89					11-14
Infectious Diseasos—	ĺ	,				•		
Cerebro-Spinal Meni	ngitis							20
Cholera								14
Continued Fever								13
Diarrhoea								14
Diphtheria								14
Enteric Fever				· .				$13, \overline{20}$
Erysipelas						• •		14
"Fever"								13
Measles								14-15
Membranous Croup								14
Plague								14

INDEX TO CONTENTS.—Continued.

									PAGE.
Infections Diseases-	-Conti	nued—							
Puerperal Fev	ver								14
Relapsing Fe									13
Scarlet Fever								12-	13, 18
Smallpox									12
Tuberculosis									-15-17
Typhoid Feve	er								F3. 20
Typhus Fever									13-14
Whooping Co									15
Inquests	C)								7
Inspectors' Reports-									
Cases Remove		ospital	(Table	D.)					38
Disinfection (38
Food and Dri			oles tal-	ken and	Result	ts (Tab	le (f.)		39
Food Conden									40
Nuisances dea									32 33
Structural We				e B.)					34 36
Visits of Insp									37-35
Institutions (Public)									7
Meteorology									58
7.4									- 6
Reports : Inspectors									31.40
School Children: Me									.5
Schools and Infectio									14 15
Statistical Tables									41-58
** 141 * **									7.8
Vital Statistics									6.17
Whiteleas Smallpox									20
Zymotie Diseases									8-9
Zj morre Discuses									

SUMMARY OF VITAL STATISTICS, 1909.

Area of Borough			• /	 	-2.399	acres.
Population, estimated to Jr	me 30th,	1909		 		117,627
Number of Births				 		3,388
Birth Rate				 		28.9
Number of Deaths				 		1,779
Death Rate				 		15. f
Number of Deaths under or				 		468
Infantile Mortality Rate				 		138
Number of Deaths from Zyn	notic Disc	eases-				
Smallpox				 		0
Measles				 		38
				 		19
" Fever " (Typhoid)				 		4
Diphtheria				 		20
Whooping Cough				 		36
Diarrhoea				 		42
Zymotic Death Rate				 		1.35
Number of Deaths from all T		ns Disc	ases	 		198
Death-rate from Tuberculos	sis			 		1,68

INTRODUCTORY.

To the Chairman and Members of the Health Committee.

MR. CHAIRMAN AND GENTLEMEN,

I have the honour of submitting to you my Sixth Annual Report, the thirty-fifth report presented to you by successive Medical Officers of Health.

I am glad to be able to announce a further decrease in the deathrate of the Borough. This rate, 15.1 per 1,000 of the population, is a considerable improvement on 15.5, the rate for 1908, which was previously the lowest death-rate on record for the Borough. Scarlet Fever showed signs of becoming very prevalent during the summer and autumn months, but died away later. Under the Tuberculosis Regulations, 1908, I now receive notification of all eases of Pulmonary Tuberculosis in poor law patients. should prove of use in preventing the spread of this disease. medical examination of school children under the Education (Administrative Provisions) Act, 1907, has been earried out by a Medical Officer appointed under the Education Committee. I hope that the Council will arrange some scheme by which the valuable information thus obtained may be used by those responsible for the public health, both for the benefit of the children individually and for the physical improvement of the community.

I wish to express the loss to the Health Department, and to myself personally, eaused by the death of the late Chairman. Alderman John Imrie was for almost thirty years a member of the Town Council, and was elected Chairman of the Health Committee when that Committee was constituted in November, 1900. The intimate knowledge that he had of the history of the town and of its people, and his ripe experience were always at the service of the Health Department, even when his last illness made him unable to attend meetings of the Committee.

I am, Gentlemen,

Yours obediently,

S. G. MOSTYN,

MEDICAL OFFICER OF HEALTH.

HEALTH OFFICE,
SOUTH SHIELDS,
22ND MARCH, 1910.

HEALTH REPORT, 1909.

VITAL STATISTICS.

Area of Borough.—2,399 acres, including inland water (55 acres), but excluding foreshore and tidal water (246 acres).

Population. The Registrar-General estimated the population of the Borough to be, at June 30th, 1909, 117.627. The density of population per acre is 49.0 on the above estimate. The Registrar-General bases his calculation of the population on the census of 1891 and 1901. It is probable that the population of South Shields has not increased since 1901 as rapidly as the method used would suggest. By taking the excess of births over deaths since the last census, and making no allowance for emigration or immigration, the population would amount to 114,600; while from the number of names on the Burgess Roll. I would estimate the population at about 112,000. A correct knowledge of the population is essential for accurately determining the death-rates and birth-rate. When we learn the result of the next census in 1911, it may be necessary to add five per cent, to our present estimates of the birth and death rates. It is greatly to be hoped that a quinquennial census will shortly be established.

Births.—There were 3,388 births registered during the 52 weeks ending December 25th, the birth-rate being 28.9 per 1 000 of the population. This rate is the same as for 1907, and is the lowest on record for South Shields.

Births.	Males.	Females.	Totals.
Legitimate	1.673 52	1,598 65	3.271
Total	1,725	1,663	3,388

The proportion of male to female births was 1,037 to 1,000. The percentage of illegitimate births was 3.5, which was also the percentage for 1908.

The number of births in each Ward is given on page 55.

Deaths.—1,779 deaths occurred during the year, a number equivalent to a death-rate of 15.1 per 1.000 of the population.

This death rate is eonsiderably below 15.5 per 1,000, the death rate for the previous year. For no other year has the death rate ever been below 16 per 1,000. In spite of this great improvement our death rate is higher than the average for the 76 great towns. Of these 76 great towns, 44 have a lower death rate than ours.

The following shows the deaths and death rate for each quarter of the year:—

	No. of Deaths.	Death-rate.
First Quarter	$495 \qquad \dots$. 16.8
Second Quarter		. 15.2
Third Quarter	377	. 12.8
Fourth Quarter	460	. 15.6

Of the total deaths, 937 were males and 842 were females, the proportion of male to female deaths being 1,113 to 1,000.

Included in the total number of deaths are 177 which occurred in the Union Workhouse, Harton, and 8 in the County Asylum, Sedgefield, among persons who belonged to the Borough. Three deaths in the Ingham Infirmary, South Shields, of persons belonging to other districts have been excluded from our returns, and the particulars relating to the deaths have been notified to the Medical Officers of Health of those districts.

Deaths in Public Institutions.—In addition to the 185 deaths mentioned above, 85 deaths occurred in public institutions in the Borough, viz.:—74 in the Ingham Infirmary, and 11 in the Denes Fever Hospital, making a total of 270, which is 15 per cent. of all the deaths during the year. For the year 1908, the percentage was also 15.

Coroners' Inquests were held regarding 107 deaths, the proportion of inquest eases to the total number of deaths during the year being 6.0 per eent. Seventy-two of these deaths were due to various forms of Violence. (See Table I., page 49).

Uncertified Deaths.—During 1909, there were 64 deaths, the eauses of which were not certified by the Coroner or by medical men, equivalent to 3.6 per cent. of the total number of deaths. Of

these deaths, 40 occurred under one year of age, and five more from 1 to 5 years. In Gateshead alone is this percentage of incertified deaths exceeded. I have found no reason to change the opinion which I expressed in my Annual Peport for 1908, that an increase in the number of inquests is desirable to remedy this unsatisfactory condition.

Infantile Mortality.—The number of deaths under one year of age was 468, which corresponds to an Infantile Mortality Rate of 138 per 1,000 births. Among illegitimate children the infantile mortality rate was 274 per 1,000 births. As in the country in general, this rate is twice as high among illegitimate as among legitimate children.

The following Table gives the Infantile Mortality during 1909 in the various Wards of the town:—

WARD.	No. of Births.	No. of Deaths under one year.	Infantile Mortality Rate per 1,000 Births.
Shields Simonside St. Hilda Holborn Rekendyke Hadrian Laygate Victoria Bents Tyne Dock Deans Beacon Westoe West Park	215 251 160 201 290 188 253 339 135 283 385 268 163 257	43 46 27 34 45 28 37 46 18 34 46 31 16 17	200 183 169 169 155 149 146 136 133 120 119 116 98
Whole Borough	3.388	168	138

Zymotic Diseases.—The seven principal Zymotic Diseases caused 159 deaths, viz.:—Diarrhoea, 42; Measles, 38; Whooping Cough, 36; Diphtheria. 20: Scarlet Fever, 19; "Fever," 4; and Small-pox. 0. The death rate from these diseases was 1.35 per 1,000 of the population, as compared with 1.74 for the year 1908. The following Table gives the death rate (per 1,000 of the population) for each of the principal Zymotic Diseases since 1891:—

Year.	Smallpox.	Scarlet Fever.	"Hever."	Diphtheria and Membranous Croup.	Measles,	Whooping Cough.	Diarrhea.	Total Zymotic Rate.
1891 1892 1893 1894 1895 1896 1897 1898 1899 1900	.01	.11 .12 .38 .39 .18 .18 .15 .25 .21	.20 .20 .35 .20 .35 .27 .16 .39 .47 .20	.29 .10 .06 .05 .21 .10 .09 	.90 .30 .39 .19 .29 .92 .29 .57 .04	.61 .33 .36 .11 .90 .42 .25 .77 .13 .67	.73 .56 1.56 .43 1.43 .58 .88 1.11 1.41 .55	2.85 1.62 3.15 1.37 3.36 2.49 1.83 3.09 2.33 2.32
1901	.00	.60 .38 .11 .07 .05 .05 .08 .08 .16	.28 .06 .10 .08 .21 .08 .04 .07	.11 .06 .15 .11 .22 .27 .17 .20 .17	.68 .92 .14 .26 .22 .98 .43 .28	.46 .10 1.01 .03 .59 .58 .35 .48 .42 .31	.93 1.60 .16 .47 .58 .54 .95 .18 .69 .36	3.36 2.63 1.02 1.77 1.86 2.68 1.37 1.74 1.35

The Tables below compare South Shields with the towns and the country generally:—

		Aı	nnua! I	late p	er 1,00	0 of tl	ie Poj	ulatio	n.		e year sirths
	Birth.	Death.	Principal Epi- demic Diseases	Smallpox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	"Fever."	Diarrhea.	Deaths under on of age per 1,000 l
		i	1 1								
England & Wales	25.6	14.5	1.12	0.00	0.35	0.09	0.14	0.20	0.06	0.23	109
76 Great Towns											118
143 Smaller Towns	24.8	13.9	1.03		0.33	0.09	0.16	0.17	0.06	0.27	111
England & Wales											
less the 219 Towns	25,6	14.5	0.80	0.00	0.21	0.06	0.14	0.16	0.06	0.17	98
Durham Adminis-											
trative County	35.5	15.7	1.61		0.37	0.09	0.17	0.25	0.12	0.59	124
			1.35		0.32	0.16	0.17	0.31	0.03	0.36	138

		SOUTH	SHIELD	os.	ENGLAND AND WALES.							
Year,		l Rate po e Popula		Infantile Mortality Rate per		er 1,000 tion.	Infantile Mortality Rate per					
	Birth.	1,000		1,000	Birth.	Death.	Zymotic	1,000 Births.				
1000	24.0	21.6	2 22	1.00	20 =	10.0	2.00	174				
$\begin{bmatrix} 1900 & \dots \\ 1901 & \dots \end{bmatrix}$	$\begin{array}{c c} 36.3 \\ \hline 36.8 \end{array}$	$\frac{21.4}{20.6}$	$\begin{bmatrix} 2.33 \\ 3.36 \end{bmatrix}$	$\frac{160}{169}$	$28.7 \\ 28.5$	$\frac{18.2}{16.9}$	$\begin{bmatrix} 2.00 \\ 2.05 \end{bmatrix}$	$\frac{154}{151}$				
$\begin{bmatrix} 1901 & \\ 1902 & \end{bmatrix}$	36.4	19.4	2.62	149	$\frac{28.5}{28.5}$	16.9 16.2	1.64	133				
1903	34.5	17.1	1.01	132	28.4	15.4	1.46	132				
1904	34.5	18.1	1.77	144	27.9	16.2	1.94	145				
1905	32.0	16.2	1.86	145	27.2	15.2	1.52	128				
1906	31.7	17.9	2.68	150	27.1	15.4	1.73	132				
1907	28.9	16.7	1.37	133	26.3	15.0	1.26	118				
1908	30.1	15.5	1.74	133	26.5	14.7	1.29	121				
1909	28.9	15.1	1.35	138	25.6	14.5	1.12	109				

From these Tables it may be seen that South Shields did not share in the great improvement in the Infantile Mortality Rate which took place last year in the country in general.

•

INFECTIOUS DISEASES.

TABLE showing the number of notifications of the Notifiable Diseases, and the deaths therefrom, during 1909:—

Diseases.	Cases Notified.	Deaths Registered.
Smallpox Scarlet Fever Diphtheria (including Mem-	 494	i ė
branous Croup	93	20
Typhus Fever	30	$\frac{\cdot \cdot}{4}$
Continued Fever Relapsing Fever Puerperal Fever		· · ·
Cholera Erysipelas Plague	89	 3*
Totals for 1909	710	49
Totals for 1908	561	44

^{*} Including one in the Union Workhouse, Harton.

The following Table shows the number of cases of Infectious Disease notified during 1909, and the months in which they occurred:

1909.	Smallpox.	Scarlet Fever.	Diphtheria and Membranous Croup.	Typhus Fever.	Enteric Fever.	Continued Fever.	Relapsing Fever.	Puerperal Fever.	Cholera.	Erystpelas.	Plague. Totals.
January February March April May June July August September October November December		22 18 39 38 42 55 33 34 40 52 77 44	9 8 6 12 4 2 7 3 12 14 7		1 1 4 3 4 3 4 4 2 2 1 1			1 1 1 		3 5 3 6 9 7 7 2 9 2	35 31 57 51 64 72 46 53 57 75 104 65
Total for 1909 Total for 1908		292	93 128		39					9 .	. 561

The Infections Disease (Notification) Act, 1889, was brought into force within the Borongh on May 1st, 1891. During the past eleven years the notifications have been as follows:—

Discase.	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Smallpox		2		71	35		100	1			
Plague		• •				• •	• •			••	• •
branous Croup Erysipelas	33							$\frac{168}{104}$	133 64	$\frac{128}{97}$	93 89
Scarlet Fever Typhus Fover	669	511	1263	834		278	227	217	325	292	494
Enteric Fover Puerperal Fover				66	58 6	$\frac{59}{3}$	84 4	54 1	48 5	39 5	$\frac{30}{4}$
Continued and Relapsing Fevers						1	0.25				
Chiekenpox*				421	619	411	327				
Totals	971	703	1499	1524	1289	1025	962	545	575	561	710

^{*}This disease was made notifiable during the prevalence of Smallpox as a precautionary measure, but ceased to be notifiable in August, 1905.

Smallpox.—No eases of Smallpox were notified during the year. Thirty-eight persons who had been in contact with Smallpox in other districts were notified to the Health Department and kept under observation. None of them developed the disease.

Scarlet Fever.—The number of cases notified (494) is larger than in any year since the great outbreak in 1901 and 1902. For nearly half the year the Hospital was full, and cases had to be refused that would have benefitted by removal. Of the 494 cases notified, 67 per cent., i.c., 333 cases were removed to Hospital. Nineteen deaths occurred, 9 in Hospital and 10 at home.

In one instance it was necessary to get a magistrates' order for the removal to Hospital of two children where the accommodation at home was insufficient for proper isolation, and the parents neglected to take necessary precautions to prevent the spread of the disease.

An outbreak of Searlet Fever occurred in October among the children attending St. John's School, Winchester Street. Repeated visits were paid by me to the school, and I was able to discover five pupils attending school who had had undetected attacks of Searlet Fever. On excluding these children the outbreak was brought to an end without school closure.

The following Table gives the Scarlet Fever Attack-, Death-, and Mortality-rates, together with the percentage of cases removed to the Hospital since 1892:—

Year.	Population	Attack-rate per 1,000 Population.	Death-rate per 1,000 Population.	Mortality Rate per cent. of Cases.	Percentage of cases Removed to Hospital.
1892	80,530	4.8	.12	2.5	34
1893	82,284	7.4	.38	5.2	27
1894	84,077	8.4	.39	4.6	28
1895	85,910	4.4	.18	4.1	33
1896	87,785	5.4	.18	3.3	40
1897	89,699	7.1	.15	2.2	40
1898	91,656	6.9	.25	3.6	42
1899	93,657	7.1	.21	3.0	42
1900	95,703	5.3	.21	4.1	55
1901	97,800	12.5	.60	4.7	39
1902	103,330	8.0	.38	4.7	49
1903	105,325	3.6	.11	3.2	73
1904	107,334	2.9	.07	2.9	75
1905	109,360	2.1	.05	2.6	70
1906	111,402	1.9	.05	2.8	67
1907	113,460	2.9	.08	2.8	68
1908	115,535	2.5	.08	3.1	75
1909	117,627	4.2	.16	3.8	67

"Fever."—Thirty cases were notified as Typhoid Fever, and four deaths occurred from this disease during the year. No cases of Typhus, Relapsing, or Continued Fever were notified. Borough is to be congratulated on its comparative freedom from these fevers. The "fever" attack-rate was 0.26, and the deathrate 0.03 per 1,000 of the population. Twenty-one of the cases notified were removed to Hospital. Of the cases treated in Hospital one died. Among the nine cases treated at home there were three deaths. In the month of May a case of Typhoid Fever was reported to me which had recently been brought from a ship to a house in the Borough. I immediately reported the matter to the Medical Officer of the Tyne Port Sanitary Authority. The captain of the ship was summoned before the magistrates for omitting to notify this case of illness on the arrival of the ship. Though the magistrates refused to convict on the ground that, in their opinion, the captain was unaware of this illness, they stated that it was a proper case to bring before them. This is an important matter, particularly for South Shields, and the energetic action of the Port Medical Officer should prevent such cases in the future,

On the occurrence of some cases of Typhus Fever in Newcastle. I addressed a circular letter to all the medical men practising in South Shields, as mild cases of this disease are sometimes overlooked on account of its rarety.

Diphtheria (including Membranous Croup).—The number of notified eases of this disease was 93, compared with 128 for the previous year, corresponding to an attack-rate of 0.79 per 1.000 of the population. Twenty deaths occurred, equivalent to a death-rate of 0.17 per 1,000 of the population. The ease mortality is very high. Hospital accommodation is greatly needed for this disease.

Puerperal Fever.—Four eases of this disease occurred during the year, and three deaths were registered. Three of these cases, two of which were fatal, were attended by midwives. In each ease precautions were taken to prevent the spread of the disease, and no secondary cases occurred.

Erysipelas.—Eighty-nine eases of Erysipelas were notified during the year, and three deaths occurred from this disease.

Cholera and Plague.—No eases of these diseases were notified during the year. Repeated visits were paid to the addresses of 106 persons coming from ports infected with Cholera.

Diarrhoea.—The weather during the summer of 1909 was cold and damp, and the mortality from Diarrhoea was lower than in the previous year. Forty-two deaths occurred, corresponding to a death rate of 0.36 per 1,000 of the population. The numbers of these deaths for the first, second, third, and fourth quarters of the year were 0, 4, 18, and 20 respectively. Thirty of the 42 deaths were of infants under one year of age. Twenty-four other deaths were due to allied diseases, of which 11 were under one year of age, and four from one to two years old.

Measles caused 38 deaths, giving a death-rate of 0.32 per 1,000 of the population. The Wards in which these deaths occurred, and the ages at death may be seen in Tables I, and II. The deaths occurred during the spring and summer months. (See Table III.) Below is a list showing the dates on which certain classes of the public elementary schools were closed on account of Measles:—

School.	Classes Closed.	Date of Closing.
Simonside	Standard I. Classes 8, 9, and 10 Classes 6 and 7 Whole Department Classes 4, 5, 6, 7, and 8 Classes 5, 6, 7, and 8 Class 9 Classes 9, 10, 11, and 12	February 15th. April 26th. May 14th. """ ", 15th June 9th. May 18th. ", 28th. June 14th. ", 30th. May 18th. ", 40th. May 18th. ", 26th. June 2nd. ", 9th.

^{*} Measles and Whooping Cough.

Whooping Cough caused 36 deaths, equivalent to a death rate of 0.31 per 1,000 of the population. On account of this disease Classes 8 and 9 of the Westoe Infants' School were closed on April 23rd. (Also see Table under Measles above).

Tuberculosis.—There were 198 deaths from Tuberculosis during 1909, as follows:—

Pulmonary Tuberculosis (Tuberculous Phthisis)	96
"Phthisis" (not otherwise defined)	34
Tuberculous Meningitis	26
Tuberculous Peritonitis	22
"Tabes Mesenterica"	1
Tuberculosis of other Organs	4
General Tuberculosis	

The death rate from Tuberculosis for 1909 was 1.68 per 1,000 of the population, as compared with 1.81 for the previous year. Sixty-six bundles of bedding and 29 rooms were disinfected during the year by the staff of the Health Department in connection with the enquiries which are made whenever a death occurs from Tuberculosis of the Lungs.

[‡] Measles, Whooping Cough and Scarlet Fever.

The Public Health (Tuberculosis) Regulations, 1908, came into force on the first of January, 1909. These Regulations provide for the notification to the Medical Officer of Health of eases of Pulmonary Tuberculosis occurring among the inmates of Poor Law Institutions, or among persons under the eare of District Medical Officers. One hundred and forty-nine such notifications were received during the year, referring to 104 persons, 72 of whom were males, and 32 females. Thirty-five of the 149 notifications were of persons from Common Lodging Houses or Seamen's Lodging Houses. Of these 104 persons, of whom 40 died during the year, 54 were under treatment in the Workhouse Infirmary, and 50 at addresses ontside. Cases treated outside the Workhouse were visited by the Health Visitor, and instructions were given to the patients and friends with a view to preventing the spread of the disease. Disinfection was advised, and in 14 cases carried out by the help of the staff of the Health Department. A small number of eases of Pulmonary Tuberculosis were notified by medical men in the town. Visits were paid, and advice and help were given in the same way as with the Poor Law eases.

In connection with these Regulations the Medical Officer of the Local Government Board has issued an important Memorandum on Administrative Measures against Tuberculosis. He lays stress on the importance of disinfection and of training the patient in the method of life suitable to the disease. "Tuberculosis is not only preventable, but the vast majority of cases attacked by it recover. The disease is declining under the influence of improved sanitation, and higher social welfare. Diminution of overcrowding has diminished infection and increased the resistance to it. exaggerated fear of infection in Pulmonary Tuberculous is unnecessary, but it is of importance not only to teach hygiene in the schools as an aid in the fight against Tuberculosis, but also to earry on an active propagandism outside school life to teach the essentials of the prevention of Tuberculosis and bring the pressure of public opinion to bear against indiscriminate expectoration and against overcrowding and other evils of housing and occupation

Early diagnosis of the disease is important, and more effective preventive measures could be taken were every encouragement given for the systematic treatment of "persistent colds," repeated attacks of "Bronchitis," and the like, which may indicate an early attack of Pulmonary Tuberculosis. When the disease is detected the active co operation of the patient and his household must at once be obtained, both in his own interest and for the sake of the public health. The assistance of the staff of the Health Department should be invoked in every suitable case. The cure and the care of the individual patient are the most effective means of avoiding further eases."

Dr. Newsholme further remarks:—"The chief means for the prevention of infection in Tuberculosis is the prevention of indiscriminate expectoration. For this purpose sanitary authorities having the necessary powers may advantageously make byelaws prohibiting spitting in public carriages, halls, waiting-rooms, or places of public entertainment; and the enforcement of such byelaws, and the exhibition of notices warning against expectoration have a most beneficial influence."

Attention is also drawn in the Memorandum to the advantages of a course of treatment and training in the necessary precantionary measures at a sanatorium; a well organised Tuberculosis Dispensary is a valuable aid, especially in a large town, as visitors attached to it can see the cases at their homes. For advanced cases where infection is greatest institutional treatment for example in Poor Law Infirmaries has great advantages.

"The number of cases of Tuberculosis at any one time, so far as the disease is derived from other human cases of the disease, must depend on the total number of similar cases from which the infection of Tuberculosis can be derived, and on whether the dosage of infection suffices under the conditions of its recipients to produce disease. Evidently then the occurrence of future cases of Tuberculosis, even though these measures are not adopted early in each case can be prevented in the proportion of the extent to which measures are adopted for preventing the patient from scattering the infection by cough and expectoration, and for keeping the patient separate from those susceptible to infection."

It is too early to expect the effect of these new Regulations to show itself by a lowering of the death rate from Phthisis, but I confidently expect that this will be the case. The Local Government Board expressly provide "that nothing in the Regulations shall have effect so as to apply or to authorise anyone to put in force with respect to a person in relation to whom a notification has been made any enactment which renders him or any other person liable to a penalty or subjects him to any restriction, prohibition, or disability affecting him or his employment, occupation, means of livelihood, or residence on the ground of his suffering from Pulmonary Tuberculosis." The action taken in consequence of these notifications last year has been well received by the patients who have been grateful for the advice offered and the help given.

Bacteriological Laboratory.—Thirty-three specimens were examined during the year, including 21 for Diphtheria, and 7 for Typhoid Fever.

THE BOROUGH HOSPITALS FOR INFECTIOUS DISEASES.

DENES FEVER HOSPITAL.

The following Table shows the number of patients admitted to and discharged from the Denes Fever Hospital during 1909:—

Notified Disease.	Remaining in on Dec. 51st, 1908.	Admitted during 1909.	Total Number Treated during 1909.	Discharged during 1909.	Died during 1909.	Remaining in on Dec. 31st., 190s.	Mortality per cent of total number of Discharges and Deaths.
Searlet Fever Enterie Fever Cerebro-Spinal Meningitis	17 4	333 21	350 25	306 23	9 1	35 1	2.9
Totals	21	355	376	329	11	36	3.2

The following Table gives the average number of patients in Hospital for each month of the year:—

Notified Disease.	January.	· February.	March.	April.	May.	June.	July.	Angust.	September.	October.	November.	December.	Whole Year.
Scarlet Fever Enteric Fever Cerebro- Spinal Meningitis				48.9				31.2 4.2 0.8	1.3	44.4 1.9		51.5 1.0	39.0 1.8 0.2
All Diseases	20.0	19.2	29.3				46.8				53.0	$\overline{52.5}$	

Scarlet Fever —The largest number of patients in Hospital at one time was 63 on December 1st and 8th; the smallest number was 12 on four days in January. The average duration of stay in Hospital (excluding fatal cases) was 45.4 days. Nine deaths occurred after a stay in Hospital of 2, 4, 4, 6, 6, 15, 23, 39, and 45 days respectively.

Denks Hospital.—The Hospital was first opened for the reception of patients in May, 1883, and the number of cases admitted year by year, since that date, is as follows:--

1909	:	333	21	:	:	H	355
1908	:	219	33	;	:	က	254
1507	:	220	37	:	:	C1	259
1906		147	35	:	:	ç	187
1905	:	191	59	:	:	4	422
1964	:	500	53	:	:	:	855 855
1903	:	277	67	:	:	:	306
1905	:	60₹	35	;	:	:	444
1901	:	981	99	:	:	4	556
1896 1897 1898 1899 1990 1901 1902 1903	:	585	4.4	-	:	H	358
1599	:	284	114	7	:	:	399
1898	:	566	107	:	:	O1	375
1897	:	359	47	:	:	-	307
1896	:	195	65	:	:	1	261
890 1891 1892 1893 1894 3895 1	:	126	99	:	:	Ç1	194
1894	:	661	56	:	:	Ç1	227
1893	9	164	4.9	:	;	Ç1	214
1892	∞	134	တ	7	21	က	156
1891	:	118	17	7	:	တ	139
1890	:	43	35	က	-	1-	68
1889	:	53	el	21	:	4	4
18881	Ç3	09	9	1	Ç.	ÇI	13
1887	m	212	6	 1	:	10	944
1886	ده	120	7	:	:	20	137
1885		001	¢.	ତୀ	ಣ	7	126
1884	61	00	16	:	16	4	99
1883 1884	13	233	1-	:	ಣ	9	51
DISEASE.	Smallpox	Scarlet Fever	Enteric Pever	Diphtheria	Typhus Fever	Other Diseases	TOTALS
1							

Typhoid Fever.—The maximum number of patients under treatment at one time was five in July and August. For 52 days during the year no Typhoid Fever patients were under treatment. One death occurred four days after admission. The average duration of stay in Hospital of the remaining cases was 28.8 days.

Cerebro-spinal Fever.—One ease of Cerebro spinal Fever was admitted from the Ingham Infirmary. This patient died after a stay of 86 days in Hospital. There is only one bed available for cases of this kind, and in consequence a second case which occurred in the town about the same time had to be refused admission. I thought it advisable to address a circular letter to all the medical men in the town to call their attention to this disease. Fortunately, the disease never became epidemic.

New Infectious Diseases Hospital.—At two periods of the year the accommodation for Searlet Fever at the Denes Hospital was inadequate. Further accommodation is needed so that we may be able to isolate and treat Diphtheria as well as such rarer diseases as Cholera, Typhus, Plagne, and Cerebro-spinal Meningitis to which the town is liable at any time. I regret that no steps were taken during the year to provide the new Hospital for which so admirable a site has been purchased.

WHITELEAS SMALLPOX HOSPITAL.

The following Table shows the number of eases treated in the Whiteleas Smallpox Hospital:—

DISEASE,	1893	1594	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1949
Smallpox	51	11	9.)	1->	3	9	3	2		71	37	103	101				
- Champox	01	11		1-	"		Ĭ,	~		111	01	105	101	~		'	

No case of Smallpox was notified during the year in the Borough; but one case was treated for, and at the expense of the Tyne Port Sanitary Anthority, whose Floating Hospital was required at that time for patients suffering from another disease.

Joint Smallpox Hospital Scheme.—Progress has been made with the scheme to join with the North-East Durham Joint Smallpox Hospital Board. A meeting was held in October at which the Health Committee met members of the existing Joint Board, and conditions of amalgamation were discussed and agreed to In my opinion this is a step which will not only save expense to the districts involved, but will also be for the good of the public health.

GENERAL.

Nuisances, etc.—During the year, 484 preliminary notices were served on owners with regard to 768 nuisances, and 524 preliminary notices were served on occupiers respecting 296 nuisances. Particulars of the nuisances will be found in Table A., pages 32 and 33. It was necessary to serve 31 statutory notices on owners regarding 50 nuisances, and one statutory notice on an occupier. No proceedings were taken before the magistrates for the abatement of nuisances.

Back Lanes.—The condition of the back lanes and the system of refuse disposal remains as mentioned in my reports of previous years.

Public Health Acts Amendment Act, 1907.—The following sections of this Act have been adopted in South Shields:—

- Section 24—Height and Structure of chimneys.
 - ,, 34—Extension of power of the Council to enter premises and examine drains.
 - ,, 35—Extension of the definition of nuisance to any (1) Cistern liable to be contaminated, (2) Gutters and drains causing dampness to buildings, (3) Deposit of material causing dampness.
 - 36—Rainwater pipes not to be used as soilpipes.
 - ,, 37—Water or Stack-pipes not to be used as Ventilating Shafts.
 - ,, 47—Power to provide public conveniences under street.
 - ,, 49—Summary power to provide sinks and drains for buildings.
 - ,, 56—Filthy and dangerous articles to be purified.
 - ,. 57—Child suffering from Infectious Disease not to attend School.
 - , 59—Provision as to Library Books. This section prohibits the (1) taking, (2) use, or (3) return of Library Books by a person who is suffering from an Infectious Disease.

- Section 60—Local Authority may pay expenses in Hospital of person who is not a pauper.
 - ,, 61—Removal of person from infected premises and the provision of houses or shelters temporarily.
 - ,, 62-As to exposure of infected person or things.
 - ,, 65—Extends the power of removal to Hospital to all persons suffering from any dangerous infectous disease who cannot be effectually isolated.
 - ,, 66—Cleansing and disinfection of premises.
 - ,, 67—Provision of mursing attendance by Local Authority
 - ., 68-Wake not to be held over body of person dying of Infectious Disease.
 - ,, 69-75—Common Lodging Houses. May register for one year only.
 - 95—Enabling the Corporation to appropriate any lands acquired by them and not required for the purposes for which those lands had been acquired, for any purpose approved by Local Government Board, subject to any special condition affecting such lands, and subject to the qualifications set forth in the section.

Section 51, giving power to declare a trade to be an "offensive trade" under Section 112 of the Public Health Act, 1875, was, in the first place, approved in Committee, but referred back by the Council, and afterwards not recommended for adoption. I consider this is to be regretted, as the possession of the powers thus conferred merely simplifies procedure and can give rise to no hardship or injustice. In the case of a gut-scraper, mentioned in my report last year, had this section been in force, time would have been saved, and considerable annoyance to the neighbours would have been prevented.

Section 39, giving power to require water-closets in new and existing buildings, was referred to a joint meeting of the Health and Town Improvement Committees, who resolved not to adopt it. A letter was received from the Local Government Board in October, enquiring whether the Town Council could not secure the provision of water-closets in all new buildings, and drawing attention to the powers given under Sections 39 to 42 of this Act. Following on this letter, the Health Committee recommended

the Council to adopt Sub-sections (1) and (2) of Section 39, but the Council referred the matter to a joint meeting of the Health and Town Improvement Committees, who have since resolved not to adopt the section.

Housing of the Working Classes Acts. —As mentioned in my last Annual Report (pages 25 and 26) closing orders were obtained during the months of January and February for various houses, in accordance with resolutions of the Health Committee in 1908. Of the property reported on last year, and closed by the magistrates, repairs have been carried out satisfactorily at 2-8, Heron Street, and the closing order has been determined by the magistrates.

At 1-2, Queen Street, one room was closed voluntarily, and certain necessary repairs were earried out. In consequence no closing order was applied for.

The District Survey begun in 1908 has been continued in another quarter of the town. I hope soon to submit a report thereon to the Committee.

In addition, by arrangement with the owners, and without official representation by myself, the following premises have been elosed:—

- 2-4, Tyne Street, 4 rooms. There being no w.e. and no yard, the owner decided to close rather than go to the expense of providing these.
- 14, Market Place. One out-shot room which could not reasonably be made fit for habitation.
- 5. Park Street. 2 out-shot rooms.
- 7, Park Street. One lower room; damp, dark.
- 17¹₂, East Street. 8 rooms.
- North Lane (top house). One room was given up so as to seeure privacy for the w.e.; this room also serves as a wash-house.
- 19, Long Row. This house of 6 rooms was struck off the register of Common Lodging Houses by the magistrates, and has since remained closed,

Common Lodging Houses.—121 visits were paid by the Inspectors of Nuisances to these houses, which were generally found in a satisfactory condition. Notices were served in connection with 6 muisances. At the end of the year there were 26 houses on the register having accommodation for 9°5 lodgers. At two of the houses there is accommodation for both men and women. In two instances lodging-house keepers were convicted of offence and fined; their liceness were cancelled. These houses are also supervised by the Police, who paid 1,112 visits to them.

Seamen's Lodging Houses.—There were on the register at the end of the year 68 houses with accommodation for 701 seamen. The Inspectors of Nuisances paid 490 visits to these houses, and the Police paid 1,070. Notices were served regarding 5 nuisances. Two persons were prosecuted by the Police for keeping unlicensed Seamen's Lodging Houses. The German Sailors' Home, which was opened at the end of the year at the Mill Dam, affords accommodation for 47 seamen.

Houses-Let-in-Lodgings.—There are 13 houses on the register. These houses are occupied by a nomad population of the poorest class. Their migratory habits render inspection difficult and ineffective.

Factory and Workshop Acts.—Particulars of inspections and defects found during 1909 in connection with the factories, workshops etc., in the Borough are given in the Home Office Table on pages 25 and 26. As many small employers are unaware of their duty to send at the beginning of February and August of each year to the District Council a list of all out-workers employed by them, I requested the Council to issue an advertisement calling attention to this duty. The advertisement was issued at the end of the year, but no lists have been received in consequence of it.

FACTORIES, WORKSHOPS, WORKPLACES AND HOMEWORK.

1.- INSPECTION.

		Number of	
Premises.	Inspections.	Written Notices	Prosecutions.
FACTORIES	70	2	•
WORKSHOPS (Including Workshop Laundries)	330	14	
WORKPLACES (Other than Outworkers' premises included in Part 3 of this Table)	162	1	
Total	562	17	

2.—DEFECTS FOUND.

		Number o	of Defects		Number
Particulars.	Found.	Remedied		Referred to H.M. Inspector.	tions.
*Nuisances under the Public Health					
Acts:— Want of cleanliness	15	13	2		
Want of ventilation	li	1	ī		
Overcrowding					
Want of drainage of floors	··· <u>·</u>				
Other nuisances	5	2	3	•••	
	,	1			
Insufficient	1 8	1 6	· · · i		
Not separate for sexes			1		
Offences under the Factory and		•••		•••	
Workshop Act:-					
Illegal occupation of underground					
bakehouse (s. 101)					
Breach of special sanitary require-					
ments for bakehouses (s. 97 to 100) Other offences				•••	
(Excluding offences relating to out-	•••				
work which are included in Part					
3 of this Table)		1			0
		1			
Total	30	22	7	1	
		3	1		0

^{*} Including those specified in sections 2, 3, 7 and 8 of the Factory and Workshop Act as remediable under the Public Health Acts.

[†] Section 22 of the Public Health Acts Amendment Act, 1890, is in force, The alterations and improvements carried out during the year with regard to sanitary accommodation have been in accordance with the Sanitary Accommodation Order of 4th February, 1903

3.-HOMEWORK.

1	N. O.	S. 9,110.			Pros (88.	:	:		ber.	: 2572 : :1				
ľ	OUTWORK IN INFECTED	PREMISES, SECTIONS 109,110.	ade.).	ntsi off	abrO 8)	:::	:		Number.					
1	5 Y	PESCI	'sa	əmə	suI	:::	:			Act der				
	OUTWORK IN UNWHOLESOME PREMISES,		'sno	ពួកទ	Prose	: : :	:			kshop tor av not un ided t				
١	WORK	PREMISES, SECTION 108.	- · ·	99iJe b977 	es es	:::	:	, i		I Worl inspec that is a setter in the sett				
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1		tions.	puas	ot gi zizi.	rilird I			OTHER MATTERS	Class.	pector of the of the Public Bublic Brishop A nd of 190 n				
l		Prosecutions.	Reep System Syst	qəəd of guilind əqziri dimrəq vo ,2341 do noid			:	OT		Matters notified to H.M. Inspector of Factories: (s. 133) Action taken in natters referred by H.M. Inspector as remediately and Workshop Act the Factory and Workshop Act (s. 5): The Factory and Workshop Act (s. 5): Outstanding at end of 1903, and since artended to Notified by H.M. Inspector Reports (of action taken) sent to H.M. Inspector Receiving attention at end of year Other. Cuderground Bakehouses (s. 101): Certificates granted during the year In use at the end of the year				
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١	10 × 107.	Addresses of Outworkers.	Porwinded to		01 ; ;				Action (S. 1) Action med the					
١	SICT		Received from			on : :	100		1 :	<u> </u>				
١	OUTWORKERS' LISTS, SI CTION 107.		se in	rkers.	Work- men.			. S.	Number	2 7 1 1 2 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1				
١	rworker	nployers	Sending once in the year,	Outworkers	Con- tr'ctors.		:		year.	:::::				
1	On	om E	Sendin		Lists. C	unind : :		SHOI	of the	:::::::::::::::::::::::::::::::::::::::				
١	OUTWORKED Lists received from Employers		ce in	n kers.	Work-	a	0	ERED WORKSHOPS.	he end	¥ :::::				
١			sending twice in the year.	Ontworkers	Com- tr'etors.		i :	RED	131) at t	on Regi				
			.ve		Lists.	٠: ٠	21	STE	er (4,					
			NATURE OF WORK.			Wearing Apparel— (1) Making, etc. (2) Cleaning and washing Other work	TOTAL	4.—REGIST	Workshops on the Register (s. 131) at the end of the year.	Making of Wearing Apparel Bakehouses Joinery Cabinet-naking				

Tyne Dock Mortuary.—Complaints were made of the unsatisfactory position of the mortuary on the staithes at Tyne Dock. Though the matter was discussed, I regret that I have to report that steps were not taken to force those responsible for the present position of the mortuary to remedy this nuisance.

Water Supply.—During the year 100 samples of water from the public supply were examined by Sir Rubert Boyce, Holt Professor of Pathology in the University of Liverpool. Sir Rubert Boyce's report is now in the hands of the Parliamentary Committee.

Food Inspection.—One hundred and fifty samples were taken during the year, and submitted to the Borough Analyst. Details of the samples taken, and the action which followed are given in Table G, page 39. Fourteen samples were taken informally. Twelve samples of milk taken in course of delivery at the railway station were all genuine. Particulars of the amount of food condemned during the year will be found in Table H., page 40.

Public Slaughterhouse.—All slaughtering in the Borough is done in the Public Slaughterhouse. The number of animals slaughtered during the year was:—Beasts, 4,444; Calves, 564; Pigs, 6,465; Sheep, 36,450; total, 47,923 animals. The following were condemned at the Slaughterhouse as unfit for human food:—

Beasts: 39 carcases and parts of 48 carcases.

Calf: 1 carcase.

Sheep: 14 carcases, and parts of 10 carcases.

Lambs: 3 carcases. Pigs: 3 carcases.

Particulars of these carcases are included in Table H. above mentioned. No proceedings were taken before the magistrates on account of unsound meat.

Triperies and Gut-Scraping Places.—There are four tripepreparers in the Borough, one of whom carries on business at the Public Slaughterhouse. At the end of the year there were four gut-scrapers, three of whom worked at the Slaughterhouse.

Cowsheds, Dairies, Milkshops, Ice-Cream Shops and Fried Fish Shops—These have been regularly inspected during the year. There are about seventy fried fish shops in the Borough; the number is constantly changing.

Midwives Act, 1902.—There are now 28 midwives on the South Shields register. Two midwives died during the year, and one had her name struck off the Roll in February owing to her neglecting to comply with the rules laid down by the Central Midwives Board. The names of two women trained as midwives have been added to the list.

During the year 199 visits were paid by the Inspector of Midwives to midwives at their homes; their case books and appliances were examined, and on the whole found in a satisfactory condition. Instructions and advice were given where necessary. Thirty two visits were paid by pridwives to the Inspector at the Health Office with regard to their work. In addition to the above, visits have been paid to 38 uncertified midwives, to whom advice was given with reference to cleanliness, and the precautions necessary in their work. Six uncertified midwives have called at the office to obtain information about the training now needed before registration. As yet none of these women have undergone training on account of the expense.

During the year, 1,136 births were attended by certified midwives, and 320 cases are known to have been attended by uncertified women. Two midwives attended more than 100 cases each, seven attended from 50 to 100 cases each, and seven attended less than 10 cases each.

After the 1st April, 1910, it will be unlawful for any woman, habitually, and for gain, to attend women in childbirth, otherwise than under the direction of a qualified medical practitioner, unless she be certified under the Midwives Act. At present the number of midwives practising in South Shields is sufficient, but as most of the women engaged here in this work are not young, and only two women have undergone training to practice in the town since the Act came into force in 1902, it seems likely that the number of midwives will diminish during the next few years.

Notifications have been received from midwives during 1909 in accordance with Rule E. 20, as follows:—

Still-births	
The reasons given for sending for medical help wer	re :—
Abnormal labour	18
Delicate or premature infants	16
Illness of mother	4
Illness of mother	2
•	40

Three cases of Puerperal Fever, where a midwife had been in attendance, were visited by the Inspector, who saw that necessary precautions were taken to prevent the spread of the disease. No secondary cases occurred.

Health Visitor.—The Health Visitor reports that during the year 2,072 visits were paid to houses where births had taken place, and advice was given to the mothers on the feeding and management of infants. Of the children visited 1,850 were breast-fed, 102 partly breast-fed, and 120 hand-fed.

The condition of the infants is shown below:—

		Mixed feeding.			Percentage Hand-fed.
Well-nourished	1424	32	26	1482	1.8
Fairly well nourished	362	24	62	448	13.8
Ill-nourished	64	46	32	142	22.5

The following Table gives particulars of the feeding of the infants visited during the year:—

		FEE	DING.				Per- centage		
MONTH.			(Hand-fo	ed.	Tetal.	of		
	Breast	Mixed	37	Туре е	f Bettle		Children Hand-		
	fed.	feeding.	No.	Beat.	Tube.		fed.		
January	140	8	5	3	2	153	3.3		
February	130	9	7	4	3	146	4.8		
March	137	6	10	7	3	153	6.5		
April	154	7	12	6	6	173	7.0		
May	210	8 7	15	8	7	233	6.4		
June	129		7	5	$\begin{bmatrix} 2 \\ 3 \end{bmatrix}$	143	4.9		
July	191	8	9	6		208	4.3		
August		9	14	10	4	155	9.0		
September	149	8	8	1 3	5	165	4.9		
October	154	13	7	3	4	174	4.0		
November	182	7	14	9	5	203	6.9		
December	142	12	12	8	4	166	7.2		
TOTAL	1850	102	120	72	48	2072	5.8		

Three hundred and twenty-eight re-visits were paid to children in delicate health, or to hand-fed babies. In some eases considerable improvement was noticed. Thirty eases were visited where the mother had to leave her child in order to go to work. This number is higher than last year, probably owing to the depression in trade. Twenty of these infants were breast-fed, and eight hand-fed.

Eighty cases of still birth were enquired into. Thirty-nine of these cases were attended by certified midwives, 21 by unregistered women, and 20 by medical men. Forty-two of the still-births were premature.

Enquiries were made into the eirenmstances attending the deaths of 380 infants. Of these only 169 were breast-fed, 181 were hand-fed; 30 lived only a few hours. Fifty cases of Infantile Diarrhoea were inquired into; 18 were breast-fed, 27 hand-fed, and 5 partly hand-fed.

Forty nine cases of Phthisis were visited, and instructions were given as regards cleanliness, fresh air and care of the sputum.

SUMMARY OF THE MONTHLY REPORTS TO THE HEALTH COMMITTEE DURING 1909, OF THE INSPECTORS OF NUISANCES, AND THE INSPECTOR OF MEAT, FOOD AND DRUGS, ETC.

	F	AGE.
Table	A.—Nuisances, &c., for which notices have been issued	32-33
	B.—Structural Work carried out	
	C.—Visits of the Inspectors of Nuisances	
	D.—Cases removed to Hospital	38
	E.—Disinfection of Premises, &c	38
	F.—Visits of Inspector of Meat, &c	38
	G.—Summary of Analyst's Reports on Samples taken	
	under Food and Drugs Acts	39
	H.—Food Condemned	40

TABLE A.—NUISANCES, &c., FOR THE ABATEMENT OF WHICH PRELIMINARY NOTICES HAVE BEEN ISSUED.

Nuisance, Etc.	W. Clark.	R. W. Weir.	K. Ayre.	W. Hill.	Totals.
Privy Midden Privy: insufficient dilapidated and defective defective pail absence of hatches, etc. liquid flowing from dirty W.C.: choked choked ("Fowler" type) defective and insanitary ("Fowler" type) obsolete. dilapidated ("trough") untrapped ("trough") foul basin.	1 2 23 40 2 2 2 1 1	11 28 42 26 	5 3 8 1 12 13 7 6 3 	21 21 5 2 3 2 2 1 	6 6 6 40 1 1 88 97 38 10 5 2 1 1 1 4
defective basin defective soilpipe insufficient flush. Urinal (Public House): insanitary Drain: choked defective absence of unventilated defective trap foul gully defective gully absence gully.	3 6 2 2 17 13 1 2 	8 2 	7 9 21 11 1 1 2 3	39 6 1 1 4	10 6 15 2 85 32 2 2 2 2 8 3
absence gully grate untrapped public gully. Wash-up: insanitary defective obsolete trap untrapped wastepipe defective choked absence hopper head Lavatory: untrapped wastepipe	1 2 24 3 	2 28	1 1 3 19 3 1	37 37 3	108
Bath: ,, ,, , , , , , , , , , , , , , , , ,	5 8 3 5 3 2 1 1	6 2 1 2 1 10 10 24 4	1 2 3 11 15	18 80 2 1 3 7	137 34 2 1 137 30 35 131

TABLE A.—CONTINUED.

		-			_
Nuisance, Etc.	W. Clark.	R. W. Weir	R. Ayre.	W. Hill.	Totals.
Dwelling: dirty rooms unfit for human habitation. overcrowded damp defective window cords defectivo roof. "ceiling" "walls "floor unventilated floor insufficient and choked spouting basement flooded defective staircase walls absence of water supply. Seamen's Lodging House: damp defective wall defective floor defective spouting. etc. cellar flooded. Common Lodging House: dirty absence window cords choked drain defective w.c. cistern filthy "trough" w.c. keeping animals. House-Let-in-Lodgings: filthy privy Factory: insufficient w.c accommodation unsuitable w.e. Workshop: want of cleanliness dirty w.c. basin defective floor "wall Workplace: defective yard. "roof spouting. Bakehouse: want of cleanliness Other Nuisances: keeping animals smoke nuisance accumulation of refuse depositing filth on public gully keeping pigs contrary to Bye- laws gutscraping on private	2 	2	1 4 4 3 2 3	3	6 4 4 6 3 10 1 4 6 8 6 8 6 3 1 2 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	259	238	239	328	1064
Letters sent out	31	11	47	38	127
Notices re Middens in "Added Area" Summary of Statutory Notices issued during the year:—	• •	15	12	12	15
Owners: number of notices			13	20	31 50
Occupiers: number of notices, nuisances	::	::	1		1

TABLE B.—STRUCTURAL WORK CARRIED OUT DURING
THE YEAR 1909.

	W. Clark.	R. W. Weir.	R. Ayre.	W. Hill.	Totals.
Privy Midden: abolished without any other form of convenience being substituted repaired. Privy Receptacles: provided in lieu of privy middens (3) additional provided repaired. Ashpits: provided cemented. Dustbins: (portable) provided W.C.'s: "Fowler" closets abolished without any other form of convenience being substituted pedestal wash-down provided in lieu of privy midden (1) privy receptacles (8) "Fowlers" (2) additional provided re-built repaired defective and obsolete basins replaced new cisterns and flush pipes provided cisterns repaired flush pipes repaired Drains: provided relaid repaired soil-pipes renewed or repaired ventilators provided relaid repaired inspection chambers provided cooling disconnecting "Traps provided defective and obsolete gullies replaced additional gullies provided ball gully provided ball gully provided ball gully provided ball gully provided	1 13 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 27 4 3 1 5 3 5 4 35	1 1 5 2 3 2 18 6 1 15 26 8 3 3 3 1 3 25 3	1	1 1 1 65 2 1 4 1 1 10 2 5 2 3 3 3 3 5 10 2 2 6 3 4 3 9 9 10 8 8 3 2 1 1 5 5 5 0 6 8 8 1 1 5 5 0 6 8 8 1 1 5 5 0 6 8 8 1 1 5 5 0 6 8 8 1 1 5 5 0 6 8 8 1 1 5 5 0 6 8 8 1 1 5 5 0 6 8 8 1 1 5 5 0 6 8 8 1 1 5 5 0 6 8 8 1 1 5 5 0 6 8 8 1 1 5 5 0 6 8 8 1 1 5 5 0 6 8 8 1 1 5 5 0 6 8 8 1 1 5 5 0 6 8 1 1 5 0 6 8 1 1 5 0

TABLE B.—CONTINUED.

	W. Clark.	R. W. Weir.	R. Ayre.	W. Hill.	Totals.
,, ,, eleaded	6 43 76 6 8 1 226 7 2 111 61 12 5 1	•	1 2 8 1 2 2 1 3		9 27 132 9 36 9 8 19 26 1 1 70 19 2 29 1 1 3 3 42 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
down-comer disconnected from sewer lighting and ventilation improved window cords renewed rooms closed (see also under Housing of the Working Classes Acts). obstructive building removed			1 4 6 24	··· 1	24 1

TABLE B.—CONTINUED.

	W. Clark.	R. W. Weir.	R. Ayre.	W. Hill.	Totals.
Seamen's Lodging Houses: w.c. re-built			!	1	1
defective and obsolete w.c. basins					
replaced				3	3
w.c. cistern repaired				1	1
soilpipe and ventilator renewed				1	1
,, provided			3	1	1
drains repaired				3	3
obsolete gully replaced				1	1
portable dust-bin provided			• • [1	1
yard repairedroofs				2	.>
spouts, etc. renewed or repaired				4	-
walls re-pointed				1	1
room and passage walls repaired				5	1 5
floors repaired with wood				2	2
window frames repaired				2	2
ventilation improved				2	2
Common Lodging Houses: w.c. repaired		}	2		2
walls re-pointed				1	1
room and staircase walls repaired				3	3
window cords renewed			1		1
floor re-laid with wood			1		1
spout renewed			1		1
Factories: pedestal wash-down w.c.'s provided					
in lien of "trough" closet (1)			-1		-\$
defective w.c. basin replaced			1		1
w.c.: lighting and ventilation im-					
proved			1	2	3
w.c.: privacy seemed	1	1	1	2	-1
w.c.: floor cemented	7			1	1
urinal provided	J		1		1
thish provided		• • •	1		1
privy repaired				1	1
Workshops: additional w.c. provided		1	1		1
urinal remodelled		1	0		,)
bakehouse lighting improved			$\frac{2}{1}$	• •	1
Milkshop: pedestal wash down w.c. provided			1	i	1
drain provided				ı î	1
didiii provided				1	1

TABLE C.—SUMMARY OF VISITS OF THE INSPECTORS OF NUISANCES.

	W. Clark.	R. W. Weir.	R. Ayre.	W. Hill.	Totals.
On complaint of nuisance To test drains , Seamen's Lodging Houses , Common Lodging Houses , Houses-Let-in-Lodgings , Factories , Workshops , Workplaees , Homeworkers' premises On notification, disinfection after, or removal to Hospital of infectious disease To supervise home-treated cases Re Smallpox contacts , Cholera contacts Other infectious disease contacts Re Phthisis deaths , cases , School reported cases Visits of inspection , with Board of Trade Investigator To works in progress Interviews and appointments	87 30 1 1 25 106 65 2 2 49 307 18 27 2 16 1 245 5107 	87 5 290 24 11 21 354 137 23 34 2 34 5 523 4359 26 130 279	82 44 16 40 12 13 16 176 16 9 20 2 21 11 120 5322 601 	66 8 183 57 2 22 150 1 15 123 86 53 44 1 1 55 27 466 3538 	322 87 490 121 15 70 290 82 17 902 546 103 125 7 127 44 1354 18326 26 2053 323
Taking samples with Food Inspector Total Visits	7424	6344	6534	5248	$egin{array}{c} 120 \\ \\ 25550 \\ \hline \end{array}$

TABLE D.—CASES REMOVED TO HOSPITAL.

Notified Disease.	W. Clark.	R. W. Weir.	R Ayre.	W. Hill.	Totals.
Scarlet Fever. Enteric Fever Cerebro-Spinal Meningitis	77 11	127 2 1	59 6	68 3 	331 22 1
Totals	88	130	65	71	354

TABLE E.—DISINFECTION.

Disinfected.	W. Clark.	R. W. Weir.	R. Ayre	W. Hill.	Totals.
Rooms fumigated	169	195	91	111	566
	12	34	5	9	60
	167	201	90	113	571

TABLE F.—SUMMARY OF VISITS OF THE INSPECTOR OF MEAT, ETC., TO THE VARIOUS TRADES UNDER HIS SUPERVISION.

` Places Inspected.	Number Existing at end of year.	Number of Visits.
Meat and Fish Shops		3784
Fried F'sh Shops		64
Bakehonses		40
Milkshops and Dairies	273	458
Cowsheds	6	49
Fish Curing Places	5	8
Triperies	3	8
Gut Scraping Place		• •
TOTAL VISITS		4411

TABLE G.—SALE OF FOOD AND DRUGS ACTS

The following is a Summary of the Analysts' Reports on the Samples taken during the year 1909.

,	ber en.	ber ine.		Non-genuine or Doubtful.	
ARTICLE.	Number taken.	Number Genuine.	No.	Extent of Adulteration or Deficiency.	REMARKS.
Barley, Pearl	1	1			
Bread	1	1	••	••••	••
Butter	26	23	2	Good docation and the second of the second o	••
Do		:: 1	1	Contained 0.27 per cent. Boric Acid	• •
Camphorated Oil		i	1 1	,, 0.21 ,, ,,	
Cheese	1	1			
Chicory Cocoa	1	1		••••	••
Cocoa	1	1	ï	Contained 30 per cent, of foreign	••
Do., mixed	1			Starch, chiefly Arrowroot, and 40 per cent. of Sugar; its colour heightened by the addition of a small amount of red, orange and	
Cream	3		1	blue artificial colouring matters. Contained 0.40 per cent. Boric Acid	
Do			1	, 0.21 , , ,	••
Do		٠. ا	1	,, 0.25 ,, ,,	••
Dripping		1	1	Contained about 20 per cent. Cotton Seed Oil.	
Gelatine Gregory Powder	1	i	••	••••	·
Lard		5	2	Contained at least 75 per cent. Cotton Seed Oil, and at least 10 per cent. Beef Stearine.	::
Do ,			1	Do. do.	Fined 5/- and costs.
Liquorice Powder	1	1		••••	
Margarine		1	٠;	a	••
Do Do			1 1	Contained 0.12 per cent. Boric Acid	
	••		i	,, 0.10 ,, ,, ,, ,, 0.14 ,, ,,	::
Do Do			1	,, 0.24 ,, ,,	
Milk	67	60			
Do	••	••	2 1	Deficient 6.6 per cent. natural fat Deficient 25.0 per cent. natural fat, and deficient 2.9 per cent. non- fatty solids.	Fined 20/- and costs.
Do	••	••	1	Deficient 13.3 per cent, natural fat, and deficient 9.2 per cent, non- fatty solids.	Fined 10/- and costs.
Do			1	Deficient 9.2 per cent, non-fatty solids	Letter of caution sent.
Do		• • •	1	,, 4.9 ,,	Do.
Do			1	,, 6.6 ,, ,,	Do.
Mustard Nitre, Sweet	2	2	••	****	••
Spirit of	1		1	Deficient 40.6 per cent. Ethyl Nitrite .	Letter of caution sent
Oatmeal	1		1	Contained 16 per cent. Wheat Flour	••
Olive Oil		1 5		••••	••
Pepper Rice, Ground		5 2	• •	····	• • • • • • • • • • • • • • • • • • • •
Rum		5			
Sauce	1	1		••••	
Spices, Mixed		1	٠.		••
Sweets Tapioca	1	1		::::	••
Vinegar		3		****	
Whisky		5		••••	
TOTALS	150	126	24		

TABLE H.—FOOD CONDEMNED AND DESTROYED DURING THE YEAR 1909.

	4. 01 7. 1
20 1	At Slaughterhouse,
Beasts39	Careases (38 Tuberculosis: 1 Acute Peritonitis and
	Pleurisy).
4	Forequarters (Tuberculosis; 2 Beasts).
2.4	Sets of Lungs (21 Tuberculosis, 3 Pleurisy).
- 6	Sets of Livers and Lungs (2 Tuberculosis, 3 Abscesses,
•	1 Peritonitis and Pleurisy).
10	The control of the co
1.3	Livers (6 Tuberculosis, 6 Abscesses, 1 Ulcers.)
	Liver and Stomach (Peritonitis).
\sim 2	Heads (Actinomycosis).
	Outside of Slaughterhouse.
4	Quarters (Emaciated and "Stripped"; I Beast).
2	Frozen Fore-quarters (Decomposition; 2 Beasts).
Ī	Frozen Liver (Decomposition).
	lbs. Frozen Kidneys (Decomposition).
10	At Slaughterhouse.
Cals	
Call 1	Carease (Tuberculosis).
	Outside of Slaughterhouse.
40	lbs. Frozen Livers (Decomposition).
	At Slaughterhouse.
Slieep14	Careases (5 found dead, 3 Dropsy, I Ulcers, 1
	Abscess and Emaciation, I Suffocated, I
	Gored, 1 Decomposition, and 1 Tuberculosis).
1	Frozen Carease (Decomposition).
4	Forequarters (Pleurisy; 2 Sheep).
4	Durant Half quantum (Dlaming) Shoop)
4	Breast Half-quarters (Pleurisy; 2 Sheep).
l l	Side (Damaged).
5	Livers (Flukes).
	Outside of Slaughterhouse.
40	lbs. Frozen Kidneys (Decomposition).
	At Slaughterhouse.
Lambs 3	Careases (2 found dead, 1 Suffocation).
	Outside of Slaughterhouse.
18	Heads (Decomposition).
.0	At Slaughterhouse,
Dies	
Figs	3 Careases (1 Peritonitis, 2 found dead).
1 .	Outside of Slaughterhouse.
	Carcase (found dead).
40	lbs. Frozen Kidneys (Decomposition).
47	Plueks (Decomposition).
80	lbs. Frozen Kidneys (Decomposition).
	Outside of Slaughterhouse.
Tripe (Frozen) 30	3 lbs. (Decomposition).
Fish16	ewts. Mussels (Decomposition).
.1	quarts Mussels (Decomposition).
9	stone Prawns (Decomposition).
2	quarts Shrimps (Decomposition).
F:4	quarts onrings (Decomposition).
	0 Melons (Decomposition).
	3 quarts Plums (Decomposition).
	0 lbs. Tomatoes (Decomposition).
Yeast 1	6 stone (Decomposition).

STATISTICAL TABLES.

	PAGE.
Table I.—Causes of Death, 1909, arranged according to the classification of the Registrar-General	42-49
Table II.—Deaths in Wards, 1909, (L.G.B. Tablo IV.)	50
Table III.—Deaths, 1909, classified according to Causes, Ages, and the Months in which they occurred	51
Table IV.—Vital Statistics for 1909 and provious years (L.G.B. Table I.)	52
Table V.—Birth-rates and Dcath-rates, 1871-1909	53
Table VI.—Infantile Mortality during 1909 (L.G.B. Table V.)	54
Table VII.—Infantile Mortality, 1909, in the various Wards	55
Table VIII.—Cases of Infectious Disease notified and removed to Hospital during 1909, classified according to Ward and Age (L.G.B, Table III.)	56
Table IX.—Comparative Rates of Sickness and Death from Notifiable Diseases, 1898 to 1909	57
Table X.—Summary of Meteorological Observations, 1909	58

TABLE I.-CAUSES OF DEATH, during 1909, of Persons belonging to South Shields, arranged

according to the Classification of the Registrar-General.

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	('AUSES OF DEATH.	Vaccinated	Smallpox Not Vaccinated		Con-poy and other effects of Vaccination .	Measles (Morbilli)		· · · · · · · · · · · · · · · · · · ·	Typhus	าโลธุนอ	er			Diphtheria		Pyrevia (origin uncertain)	Enterie Fever		Asiatie Cholera	Darringea due to Food	Diarrhoca (not otherwise defined):

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Dysentery. Tetanus. Malaria. Rabies, Hydrophobia Glanders Anthrax (Splenic Fever)	Syphilis	Puerperal Septicaemia, Puerp. Septic Intoxication Puerperal Pyaemia Phlegmasia Alba Dolens Puerperal Fever (not otherwise defined).	Infective Endocarditis Lobar Pneumonia Broncho Epidemic not defined Frysipelas Septicaemia, Septic Intoxication (net- Puerperal) Phegmon, Carbuncle (not Anthuax) Phagedaena Other Infective Processes Pulmonary Tuberculosis (Tuberculous Phthisis) Phthisis) Tuberculous Meningitis Tuberculous Peritonitis Tabes Mesenterica

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Cancer, Malignant Disease (not otherwise defined)	Rickets Purpura Haemophilia, Haemorrhagic Diathesis Anaemia, Leucocythaemia Diabetes Mellitus	Premature Birth Congenital Hydrocephalus Other Congenital Defects Injury at Birth Atclectasis Want of Breast Milk Teething	Meningitis, Inflammation of Brain Softening of Brain Ceneral Paralysis of Insane Insanity (not Puerperal) Chorea. Epilepsy. Convulsions. Layngismus Stridulus Locomotor Ataxy Paraplegia, Diseases of Cord Neuritis, Peripheral, Poly-Neuritis Brain Tumour (not Specific) Other Diseases of Nervous System Ottitis, Mastoid Disease Epistaxis, Diseases of Nose Ophthalmia, Diseases of Eye	Valvular Disease, Endocarditis (not Infective)

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	Total under		₹m	c1 · · · · · · · · · · · · · · · · · · ·	:-
	Months.		:::::::		: -
	5.6 Months.	: : : : :		- : : : : : : : : : : : : : : : : : : :	:::
	Months.		- : : : : : :	: :::51	::
	All Ages.	10 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 # : a : L : sı	12 :: 36	41.10
	CAUSES OF DEATH.	Pericarditis. Angina Pectoris. Dilatation of Heart Fatty Degeneration of Heart Syncope, Heart Disease (not specified)	Cerebral Haemorrhage, Cerebral Embolism Apople xy. Hemipleyia Aneurysm Senile Gangrene Embolism, Thrombosis (not Cerebral) Phlebitis Varicose Veins Other Diseases of Blood Vessels	Laryngitis	Emphysema, Asthma

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Fibroid Disease of LungOther Diseases of Respiratory System	Tonsillitis, Quinsy. Dis. of Mouth, Pharynx, Gsophagus (not Specific)	Gastric Ulcer Gastritis, Gastric Catarh Other Diseases of Stomach (not	Ulceration of Intestines Enteritis (not Epidemic) Gastro-enteritis Appendicitis, Perityphlitis Hernia. Intestinal Obstruction Other Diseases of Intestines Peritonitis (not Puerperal) Circhosis of Liver Other Diseases of Liver Other Diseases of Digestive System	Other Diseases of Lymphatic System Diseases of Thyroid Body Diseases of Supra Renal Capsules Acute Nephritis, Uraemia Chronie Bright's Disease, Albuminuria Calculus (not Biliary) Diseases of Bladder and of Prostate Other Diseases of Urinary System

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	75-	:	• •	<u> </u>	: :	<u>:</u>	<u> </u>	•	•		<u>:</u>		: :		
	65-		: :	:	: :	:	: :	•	:	- :	7	: :	: :		: "
	55-	:	: :		: :	:	: :	:	•	:::	1	: :	::		::
	45-	:	: –	:	: :		: :	•	_	: :	:	: :	: :		::
	35-	:	: :	•	: :	: -		_	2	:::		: :	: :		7:
	25-		: :		: :	•	: -	2.3	_						::
	20.	:	: :	:	: :	:		:	1	: :	:				
ATH.	15-	:	: :	•	: :	:	: :	:	:		:		::		::
AGES AT DEATH	10-	:	: :	:	: :	:		:	:		:	: :	: :		::
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AGE	Total under 5 years.		: :				: :			: G1	:	: -	: :		::
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	Total under	:	: :	:	: :	:	: :	:	:	: -	:	: :	: :		::
	Months.	:	: :	:	: :	:	: :	:	:	:-	:	::	: :		::
	3-6 Months.	:	: :	:	: :	:	: :	:	:	::	:	: :	: :		::
	Months.		: :	:	: :		: :	:	:	: :		: :	: :		::
	sahv IIV	:	:-	:	: :	: -	+ G1 :	n	10	7 57	©1	:-	::		
	CAUSES OF DEATH.	Ovarian Tumour (not Malignant)	Utering Tumour (not Malignant)		Other Diseases of Gener. & Mamm. Organs.	Abortion, Misearriage	Puerperal Convulsions	Pracenta Fracvia, Flooding		Caries, Necrosis Arthritis, Periostitis	Other Diseases of Locomotor System	Ulcer, Bed-sore	PemphigusOther Diseases of the Skin	OTHER SPECIFIED DISEASES.	Myocarditis

		9.0	To the second
	:::::::	:::::::::::::::::::::::::::::::::::::::	74
	:8 : : : : :	:::::::::::::::::::::::::::::::::::::::	29
	30 30	:::::::::::::::::::::::::::::::::::::::	104
		::9::::::::::::::::::::::::::::::::::::	234
	:cı : : : : :	: : : : : : : : : : : : : : : : : : : :	167 234
	:::::	:01 m : : : : : : : : : : : : : : : : : :	151
	::::::::		122
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	::::::::	77 ::::::::::::::::::::::::::::::::::::	38
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	4 : : : : : : :	:::::::::::::::::::::::::::::::::::::::	131
	8 : : : : : : :	:::::::::::::::::::::::::::::::::::::::	468
	m : : : : : : : :	:::::::::::::::::::::::::::::::::::::::	88 130 468
	4 : : : : : : :		88
	89	:::::::::::::::::::::::::::::::::::::::	250
	90 67		1779 250
CAUSES ILL-DEFINED OR NOT SPECIFIED.	Atrophy, Debility Old Age Dropsy, Ascites, Anasarca Tumour Abscess Hæmorrhage Sudden Dcath (cause unascertained) Other ill-defined causes Causes not specified VIOLENT DEATHS.	In Mines and Quarries Vehicles and Horses Ships, Boats, and Docks (not Drowning) Building Operations Machinery Weapons and Implements Burns and Scalds Poisons, Poisonous Vapours. Drowning Sulfocation Falls Weather Agencies Otherwise, or not stated Homicide Suicide Execution	Totals

is in Insti- 18 In rough	Non-R'sid'nts Excl'ded from cols, 2-25,	(59)
Deuths in Public Insti- tutions In	Residents Included in cols, 2-25,	2 : : : : : : : : : : : : : : : : : : :
	Residence	2 5 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	West Park.	85 14 1 11 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1
rds	Simonside.	2 : 0 : 1 : 1 : 1 : 1 : 1 : 2 : 2 : 2 : 1 : 2 : 1 : 2 : 2
W. 3	True Dock.	(8) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Deaths in or belonging to the different Wards (at all Ages.)	Deans.	(3) 121 121 132 132 133 133 133 133 133 133
diff	Westoe,	8 1 144 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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ths	. nairball	(2) :02 :0 : : : : : : : : : : : : : : : :
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	Shields.	(a) : 0 : 0 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1
Z.	1970 bun 68	88 : : : : : : : : : : : : : : : : : :
Age	.63 to 65.	8:::::::::::::::::::::::::::::::::::::
ined).	15 to 25.	(a)
(Party	BI of B	@ :- 0 :4 : :0 :1 : :1-1 : :1-2 :1-0 :2-1 : : :20 : :12 2
Deaths at subjoined Ages (Years).	.6 of f	(4)
eath	0 to 1.	(3) 11 11 11 11 11 11 11 11 11 11 11 11 11
a	Yaes: UV	2002 31.35.65.65.65.65.65.65.65.65.65.65.65.65.65
	Causes of Death.	Smallbox Messles Searlet Fever Whopping Couph Dipl-theria and Membranous (roup Croup Croup Croup Croup Typhus Fever Puteric Continued Epidemic Influenza Plague Diarrineat First Puteric First Plague First Puteric

TABLE III.—DEATHS DURING 1909 OF PERSONS BELONGING TO SOUTH SHIELDS— CAUSES, AGES, AND THE MONTHS IN WHICH THE DEATHS OCCURRED.

	All other causes.	79 103 103 177 177 177 177 177	965
	Violence.	4 @ 10 10 10 10 10 10 10 10	72
	Childbirth & Puerperal Septic Diseases	<u> </u>	14
	Bronchitis.	81 08 08 08 4 4 8 4 8 9 9 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9	136
	Pneumonia.	11 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	121 136
	Rheumatic Fever.	::-::::= ::::=	7.5
	Сапсет.	<u> </u>	78
	All other Tur erculous	<u> </u>	1.9
	Tabes Mesenteriea.		
rH.	Tuberculous, Peritonitis,	राकः :परान्यान्यान्य	÷1
压火	Meningitis.	<u> </u>	_ 56
F D	benfield functional statement of the sta	<u> </u>	34
3 0	(sisiding Phthisis).	<u> </u>	96
CAUSES OF DEATH	Dysentery. PulmonaryTuberenlosis		-64
CAI	Enteric Fever. Diarrheamnd		₹
	.nigino		:
	Membranous Croup.	<u>444000 : :40000</u>	20
	Whooping Cough. Diphtheria and	<u> </u>	36
	szasuhnI	<u> </u>	31
	Typhus Fever.		:
		<u> </u>	61
	Scarlet Fever	: : 61 4 5 61 F 52 : H : :	38
	Measles.		
	Smallpox.		<u> </u>
	TH.	January . February . March April May June July September October . November	
	LNC	January February March April May July August Septembe October Novembe	tals
	MC	Jan	To
*85	Deaths at all age	155 155 155 155 155 155 155 155 155 155	1779
	e5 and upwards.	2884440 28844833 28844833 288448 288448 28848 28846 28846	367
TH.	25 and under 65 years.	74 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	520
DEA	lo and under 25 years.	∞ 7 7 2 7 7 2 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7	81
AT	5 and under 15 years.	100 100 100 100 100 100 100 100 100 100	81
AGES AT DEATH	l and under 5 years.	20022222 2002222 200222 200222 200222	253
		1 6 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
1	Under 1 year.	644666999999999999	468

TABLE IV.—VITAL STATISTICS OF SOUTH SHIELDS DURING 1909 AND PREVIOUS YEARS.

(L.G.B. TABLE I.)

	ated rear	Births.		Tot:	d Death n the B	is occurri orough.	iog	ublic orough	ents in in the	ts in eyond	Net De at all A belongi	Ages
Year.	n estima if each 3			Under of	1 Year Age.	At all A	lges.	hs in P n the B	of Non-Residents in Institutions in the Borough.	Residen trions b prough.	Borou	:
Tear.	Population estimated to middle of each year	Number.	* Rate.	Number.	Rate per 1,000 Births registered.	Number.	* Rate.	Total Deaths in Public Institutions in the Borough	Peaths of No Public Insti Bor	Public Instations beyond the Borough.	Number.	* Rate.
1	2	3	4	5	6	7	8	9	10	11	12	13
1899 1900 1901 1902† 1903 1904 1905 1906 1907 1908	93,657 95,703 97,800 103,330 105,325 107,334 109,360 111,402 113,460 115,535	3,371 3,482 3,607 3,759 3,635 3,705 3,501 3,531 3,276 3,481	36.0 36.3 36.8 36.4 34.5 32.0 31.7 28.9 30.1	560 613 563 479 522 500 513	175 160 169 149 132 141 143 145 131 129	1,829 1,917 1,865 1,862 1,669 1,773 1,607 1,768 1,717 1,598	19.5 20.0 19.0 18.0 15.8 16.5 14.7 15.9 15.1 13.8	83 90 90 74 71 88 96 85	20 23 8 16 29 1 3 6 1 2	108 160 163 165 165 176 171 231 183 194	1,917 2,054 2,020 2,011 1,805 1,948 1,775 1,993 1,899 1,790	20.7 21.4 20.6 19.4 17.1 18.1 16.2 17.9 16.7 15.5
Averages for years 1899-1908.	105,291	3,535	33.6	522	148	1,760	16.7	82	11	172	1,921	18.2
1909	117,627	3,388	28.9	460	136	1,597	13.6	88	3	185	1,779	15,1

^{*}Rates in Columns 4, 8, and 13 enleulated per 1,000 of estimated population.

NOTE.—The deaths included in Column 7 of this Table are the whole of those registered during the year as having actually occurred within the Borough. The deaths included in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term "Non-Residents" is meant persons brought into the Borough on account of sickness or infirmity and dying in public institutions there. The term "Residents" includes persons who have been taken out of the Borough on account of sickness or infirmity, and have died in public institutions elsewhere.

The "Public Institutions" taken into account for the purposes of this Table are those into which persons are habitually received on account of sickness or infirmity, such as hospitals, workhouses, and lunatic asylums. For lists of Public Institutions, see page 7. The Union Workhouse is outside the Borough.

Area of Borongh in	Total popu	lation a	t all ages	100,858)	
aeres (exclusive of	Number of	inhabit	ed houses	-12,465	Census
area covered by	Average No	. of pers	ons per house	8.1	of
water)	2344 Do.	do.	tenement	4.6	1901.

[†] The Borough was extended, November, 1901.

									_		
Violence.	.84	.59	1.01 .67 .81 .77	.78	.53 .80 .90 1.07	.78	.78	.74	96. 57. 58. 58.	09.	.68 .77 .61
Diseases of the Reproductive System.	:	:	.16 .15 .10 .16	.13	11.	.13	.13	:	.10 .21 .21 .12	.15	.18
Diseases of the Urinary System.	:	:	.31 .39 .46 .31	.38	822.22.23	.38	. 38		.51 .45 .45	.44	54. 35. 85.
Diseases of the Respiratory System.	:	:	4.32 3.41 2.95 3.14 5.04	3.77	3.14 3.98 3.98 3.67	3.46	3.61	:	2.84 3.15 3.22 2.94	3.06	2.33. 2.33.
Diseases of the Netvous System.	:	:	2.96 2.87 2.79 2.23 3.02	2.77	2.59 2.83 2.83 2.65 2.54	2.75	2.76	:	2.83 2.45 2.22 2.22 1.14	2.29	1.44 1.38 1.41 1.36
† Diseases of Circulatory System,	1.23	1.64	1.59	1.73	2.01 1.41 1.79 1.43 1.96	1.72	1.72	1.53	1.65 1.79 1.59 1.44 2.23	1.74	2.33 2.57 2.34 2.61
Cancer.	:	:	.39	.56	.61 .59 .59	.71	.63		69.69	.65	.64 .68 .75 .66
Other Tubercular Diseases.	:	:	.89 1.52 1.28 1.09	1.12	1.11 .92 .88 .68 .79	.88	1.00	:	.71 .64 .71 .81	69.	.58
Phthisis.	1.91	1.84	1.54 1.51 1.99 1.41 1.65	1.62	1.61 1.40 1.58 1.57 1.57	1.59	1.60	1.78	1.63 1.80 1.67 1.52 1.15	1 55	1.49 1.58 1.19 1.11
Erysipelas, Pyænna and Puerperal Vever.	.25	.12	41.00.00	.10	9.61.83	.08	60.	.15	94.881.5	.11	4.7.9.I
.sadıtsiQ	1.58	.78	.73 .56 1.56 1.43	.95	.58 1.11 1.41 1.41 55	.91	.93	1.10	1.60 .16 .47 .58 .58	99.	.95 .69 .36
". Fever."	.79	.19	25. 25. 25. 25. 25. 25.	.26	73. 65. 74. 75. 75. 75. 75.	.30	.28	.42	835188	.15	.08 .07 .03
gnigoodV/ Cough.	.78	.44	.35 .36 .11 .90	.47	.42 .25 .77 .13	.45	.46	.56	.10 1.01 .03 .59 .59	.47	428
Tophtheria.	.12	.10	.29 .06 .05 .05 .21	.14	01.09	.08	1.	<u> -</u>	.15 .06 .15 .11 .22	.14	.27 .17 .20
Scarlet Fever.	1.44	.45	11.23.83.81.	.24	1. 25. 25. 21. 21. 21.	.20	.22	.70	.05 .05 .05	t2.	.08 .08 .16
Measles.	.42	.34	08. 08. 1.90 1.90 1.90	.41	2625	.47	-44	9+.	80. 128. 128. 128.	.41	98.525.
Smallpox.	.858	.012	:2:2:	10.		 : 	8.	.29	:0:0:0:0:	.03	::::
Total Zymotie. Death-rate.	6.0	2.3	2.85 1.62 3.15 1.37 3.36	2.48	2.49 3.09 2.33 2.32 2.33	2.42	2.45	3.58	3.36 2.63 1.02 1.77 1.86	2.14	2.68 1.37 1.74 1.35
Gross Death-rate.	25.5	20.5	22.1 19.4 22.4 17.3 21.2	20.5	18.5 17.2 21.5 20.7 21.4	19.8	20.1	22.0	20.6 19.4 17.1 18.1 16.2	18.3	17.9 16.7 15.5 15.1
Deaths under I year per 1,000 Births.	164	140	176 143 180 138 138	165	165 154 182 175 175	167	166	157	169 149 132 144 145	148	150 133 133 138
Birth-rate.	43.1	38.8	37.4 37.0 35.4 35.9 35.1	36.1	35.9 35.9 37.0 36.0 36.3	36.2	36.1	39.3	36.8 36.4 34.5 32.0	34.8	31.7 28.9 30.1 28.9
Population.			78,920 80,530 82,284 84,077 85,910		87,784 89,699 91,656 93,657 95,703				97,800 103,336 105,325 107,334 109,360		111,402 113,460 115,535 117,627
YEAR.	Mean 1871-80	Mean 1881-90	1891 1892 1893 1894 1895	Mean 1891-95	1896 1897 1898 1899 1900	Mean 1896-1900	Mean 1891-1900	Mean 1871-1900	1901 1902* 1903 1904	Mean 1901-1905	1906 1907 1908 1909

† Since 1891, Membranous Croup has been included. † Previous to 1965, Apoplexy was included in Diseases of the Nervous System.

TABLE VI.—INFANTILE MORTALITY, SOUTH SHIELDS DURING THE YEAR 1909.

Deaths from stated Causes in Weeks and Months under One Year of Age.

(L.G.B. TABLE V.)

CAUSE OF DEATH.	Under 1 Week.	1-2 w eeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month	12 Wonths		3.4 Months.	4-5 Months	5-6 Months.	6-7 Months.	7-8 Months.	8.9 Months	9-10 Months.	10-11 Months.	11-12 Months,	Total Deaths under One Year.
All Causes— Certified Uncertified	89 13		18		142	60	27	32	22	26	24	15	27	13	18	22	1428 40
Common Infectious Diseases— Smallpox Chickenpox Measles Searlet Fever Diphtheria (including Membranons Croup) Whooping Cough DIARRHEAL DISEASES— Diarrhea, all forms Enteritis, Minco-enteritis, Gastric, Gastric Catarth Wasting Diseases— Premature Birth Congenital Defects Injury at Birth Want of Breast Milk, Starvation Atrophy, Debility, Marasmus Tuberculous Meningitis Tuberculous Meningitis Tuberculous Peritonitis; Tabes Mesenteriea Other Tuberculous Diseases Other Tuberculous Diseases Syphilis Rickets Meningitis (Not Tuberculous) Convulsions Bronchitis Laryngitis Pneumonia Sulfocation, overlying Other Causes	51 9 3 3 30 2 2 2 2	8	1 5 5	1 10	 1 64 15 3 51 2 1 9 4	12 1 2 11 16	1 1 2 2 1 7 7 7 2 1 1	2 1 2 1 5 5 8	3 3 2 2 3 4 1	6 1 1 3 3 2 1 4	1	1 1 2 2 2 3 2	3 3 3 3 6	1 1 1	3 1	3 2	10 1 1 1 1 1 20 5 6 71 19 3 1 85 2 2 3 5 5 8 2 2 3 5 3 5 8 2 2 3 5 3 5 8 2 2 3 5 3 5 8 2 2 3 5 3 5 8 2 2 3 5 3 5 8 2 2 3 5 3 5 8 2 2 3 5 3 5 8 2 2 3 5 3 5 8 2 2 3 5 3 5 8 2 2 3 5 3 5 8 2 2 3 5 3 5 8 2 2 3 5 3 5 8 2 2 3 5 3 5 8 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 2 2 3 5 3 5 8 3 5 8 3 3 5 8 3 5 8 3 5 3 5
	102	_ 23	18	13		-	31	-1		_	-			_	41	-	

Births in the year :-

Deaths in the year :--

I egitimate, 3,271. Illegitimate, 117. Legitimate Infants, Illegitimate Infants,

136 32

Deaths from all Causes at all Ages- 1,779. Population estimated to middle of 1909 - 117,627.

TABLE VII.—INFANTILE MORTALITY, SOUTH SHIELDS, DURING THE YEAR 1909.

Deaths from stated Causes allocated to the various Wards.

				_	_	_	W	ARD	s.							si s
Cause of Death.	Shields.	Beacon.	St. Hilda.	Hadrian.	Holborn.	Laygate.	Victoria.	Bents.	Rekendyke.	Westoe.	Deans.	Tyne Dock.	Simonside.	West Park.	Unknown.	Total Deaths under One Year.
ALL CAUSES— CertifiedUncertified	35 8	28	25 2	27	32 2	33	44	18	40 5	14 2	41 5	32 2	44 2	15 2		428 40
Common Infectious Diseases- Similipox Chickenpox Measles Scarlet Pever			 1		1 1	 1	 1		2		 i		2			 10 1
Diphtheria (including Membranous Croup) Whooping Cough DIARRHEAL DISEASES—	 2 2	1			2	2	4	2	1	· 2 2	1 2	 2 1		3		1 14 30
Diarrhea, all forms Enteritis, Muco-enteritis, Gastro-enteritis Gastritis, Gastric Catarrh	2		2				1		2 1		1					5 6
Wasting Diseases— Premature Birth Congenital Defects Injury at Birth Want of Breast-milk, Stary-	8 3	5 2 	3 1	2 2	3 3 1	4	6	2 1 	8 1		10 2	12 1 1	7	1 3 		71 19 3
Atrophy, Debility, Marasmus TUBERGULOUS DISEASES— Tuberculous Meningitis	 7	5	4	6	4	· .;	iï	4	6	3	ii0 10	5	111	 5		1 85 2
Tuberculous Peritonitis; Tabes Mesenterica Other Tuberculous Diseases OTHER CAUSES—							···· 1			 1			2 1		•••	2 3
Erysipelas Syphilis Rickets Meningitis (Not Tuberculous) Convulsions Bronchitis	1 1 6 5	3 6	3 1 1 3 3	 1 2 6	1 6	1 4 6 10	1 1 4 3 6	 1 1 2	9 3	1 1 3 	1	1 5	1 5 3	"i "i …		2 10 2 13 53 58
Laryngitis Pneumoma Suffocation, overlying Other Causes		4 5	2 2	6	 1	1 1 1 3	2 1 3	 3 2	5 6	 2 	4 2	1 4	 4 4	"i "i "i		2 35 2 38
Total Deaths under 1 year of age	43	31	27	28	34	37	46	18	45	16	46	34	46	17		468
Total Deaths at all ages	167	127	98	129	125	130	151	92	149	68	154	150	136	90	13	1779
Number of Births during 1909		268	160	188	201	25 3 	33 9	135	290	163	385	283	251	257 ——		3388
Infantile Mortality Rate	200	116	169	143	169	146	136	133	155	98	119	120	183	66		138

TABLE VIII.—CASES OF INFECTIOUS DISEASE NOTIFIED AND REMOVED TO HOSPITAL IN SOUTH SHIELDS DURING THE YEAR 1909, CLASSIFIED ACCORDING TO WARD AND AGE.

(L.G.B. TABLE III).

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No. of Cases removed to Hospital from each Ward.	ke.	Rekendy	:	:	:		2 :	Ç1	:	:	: :	18
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BOROUGH ISOLATION HOSPITALS

Denes Fever Hospital, situate in Deans Ward, has 36 beds for Scarlet Fever, 13 beds for Typhoid Fever.
Whiteleas Smallpox Hospital, situate about 4 mile South of the Borough

Whiteleas Smallpox Hospital, situate about 4 mile South of the Borough Boundary, in the South Shields Rural District, has 22 beds for Smallpox, as well as some accommodation for contacts.

TABLE IX, -COMPARATIVE RATES OF PREVALENCE OF SICKNESS AND DEATH FROM INFECTIOUS (NOTIFIABLE) DISEASES IN SOUTH SHIELDS.

(Rates calculated per 1,000 of the population, estimated to the middle of each year).

Plague.	ıck Death.	::::::::
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Puerpera Fever.	Attack	.04 .05 .05 .06 .06 .01 .04 .03
Continued and Relapsing Fevers.	ck Death	
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Entoric Fever.	Deatl	
Ent	Attacl	1.87 1.17 1.17 1.64 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65
Typhus Fever.	Death	::::::::::
Typ	Attack	::::::::::
Scarlet Fever.	Death.	121 38 88 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Scs	Attack	2.5 2.5 3.6 3.6 3.6 3.6 4.2 4.2 5.3 4.2 5.3 4.2 5.3 4.3 5.3 5.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6
Diphtheria and Membran- ous Croup.	Death.	00. 11. 10. 11. 11. 12. 12. 12. 17. 17.
Diphtheri and Membran- ous Croup	Attack	.35 .30 .30 .36 .79 .68 .68 .68 .11.1 .11.1 .79
Erysipelas.	Death.	0.0000000000000000000000000000000000000
Erysi	Attack	.92 .883 .880 .956 .907 .907 .907 .766
ora.	Death.	:::::::::
Cholera.	Attack Death, Attack Deat	:::::::::
pox.	Death.	
Smallpox.	Attack	20. : : : : : : : : : : : : : : : : : : :
Year.		1899 1900 1902 1904 1906 1906 1906 1908

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	Barometer, (Corrected to sea level and 32 deg. F.		29.990 30.076 29.484 29.862 30.038 30.038 30.038 29.8638 29.891 20.891 20.891 20.891 20.891 20.891 20.891 20.891 20.891 2	29.845
Month.			January February March April May June July August September October November December	AVERAGES

The highest temperature registered during the year was 79.5 degrees Fahr.. on August 15th, and the lowest temperature was 22.4 degrees Fahr. on January 27th-28th. The greatest rainfall during 24 hours was 1.02 in., on May 25th-26th. The total rainfall at the Denes Hospital grounds was 29.33 in.